Jesse Eaton

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Objective

I am a computational biologist interested in a data science position where I can apply my understanding of analysis to difficult problems.

Education

Carnegie Mellon	M.S. Computational Biology 3.89 GPA	2016 - 2017 **Grad Dec**
Tufts University	B.S. Biomedical Engineering Minor in Computer Science 3.45 GPA (cum laude, dean's list)	2011 - 2015

Skills

Programming	Go, C, C++, R, Python, Matlab / Octave, Git, Unix environment, HTML, CSS, Javascript, Ruby + Rails, API Development, MongoDB
Biology	Sequence alignment analysis, cell culture, confocal backscattering microscopy

Courses

Computer, Math	Algorithms, Probability, Statistics, Modern Regression, Machine Learning, Simulation, Biological Automation, Machine Structure and Assembly, Differential Equations, Data Structures, Web Programming
Biology	Computational Genomics, Cancer Biology, Quantum Chemistry, Cell and Molecular Biology, Genetics, Medical Imaging, Tissue Engineering

Work

MITRE (Full Time) — Software Systems Engineer in Open Health Services — 2015-2016

- Designed and developed electronic medical record validation tool
- Core engineer in fast paced collaborative development environment

MITRE (Internship) — Software Engineer in Operational Innovation / Transportation — 2014

- Utilized configuration management tool (Chef) for deployment of salable software on Amazon Elastic Compute Cloud (AWS)

Research

Carnegie Mellon — Phylogenetic Models for Predicting Cancer Progression — 2017

- Developed and implemented algorithms for extracting features from phylogenetic models of tumors for the purpose of predicting cancer progression and breast cancer subtypes

Tufts (Senior) — Detection of Circulating Tumor Cells — 2014 - 2015

- Investigated effect of density separation on forward and side scattering of white blood cells and breast cancer cell lines
- Analyzed differences in backscattering between breast cancer cell lines and populations of white blood cells